Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) A hub unit for a driving wheel, in which:

one track ring out of a stationary ring and a rotary ring is an outer ring having a plurality of outer ring tracks on the inner peripheral surface thereof;

the other track ring of the stationary ring and the rotary ring is an inner ring assembly comprising a shaft member and an inner ring as a separate body combined with each other and having a plurality of inner ring tracks on the outer peripheral surface thereof;

the shaft member is formed with one of the inner ring tracks in a middle part in the axial direction thereof and a small-diameter step portion having a smaller diameter than that of the inner ring track portion at an end portion in the axial direction thereof; and

said separate inner ring has the other of the inner ring tracks on the outer peripheral surface thereof and is fitted on said small-diameter step portion,

which hub unit comprising:

a sensor holder fixed to the stationary ring of the hub unit for a driving wheel;

a sensor supported by said sensor holder and facing an encoder fixed to said rotary ring to rotate together with said rotary ring; and

a harness or connector extended out of said sensor for taking out a detection signal of the sensor,

wherein:

the sensor unit includes said sensor and said harness or connector;

all of the portions of said sensor unit provided which are outside the outer ring in the axial direction and inside a range of a hub unit mounting hole of a knuckle are disposed on the inner side in the radial direction than an inner wall of the hub unit mounting hole of the knuckle;

said harness or connector is disposed on the outer side in the radial direction in a non-contact manner with a constant velocity universal joint in a finished car;

said sensor is an active sensor;

a sensing portion of said sensor directly faces said encoder without interposition between it and said encoder; and

said harness or connector is extended out of a gap between said knuckle and said constant velocity universal joint.

2. (Withdrawn) A hub unit for a driving wheel according to claim 1, wherein a gap between the sensor or the sensor holder and a rotary member constituted by at least an end surface of the inner ring, the outer diameter thereof, or the constant velocity universal joint is set to be not less than 0.1 mm and to be smaller than a gap between said constant velocity universal joint and said knuckle.

3. (Withdrawn) A hub unit for a driving wheel, in which:

one track ring out of a stationary ring and a rotary ring is an outer ring having a plurality of outer ring tracks on the inner peripheral surface thereof;

the other track ring of the stationary ring and the rotary ring is an inner ring assembly comprising a shaft member and an inner ring as a separate body combined with each other and a plurality of inner ring tracks on the outer peripheral surface thereof;

the shaft member is formed with one of the inner ring tracks in a middle portion in the axial direction thereof and a small-diameter step portion having a smaller diameter than that of the inner ring track portion at an end portion in the axial direction thereof; and

said separate inner ring has the other of the inner ring tracks on the outer peripheral surface thereof and is fitted on said small-diameter step portion,

which hub unit comprising:

a sensor holder fixed to the stationary ring of the hub unit for a driving wheel;

a sensor supported by said sensor holder and facing an encoder fixed to said rotary ring to rotate together with said rotary ring;

a harness or connector extended out of said sensor for taking out a detection signal of the sensor; and

a sensor unit including said sensor and said harness or connector,

wherein:

said sensor is an active sensor; and

an internal circuit of said sensor is placed circumferentially or in an arc inside a cap.

4. (Withdrawn) A hub unit for a driving wheel, in which:

one track ring out of a stationary ring and a rotary ring is an outer ring having a plurality of outer ring tracks on the inner peripheral surface thereof;

the other track ring out of the stationary ring and the rotary ring is an inner ring assembly comprising a shaft member and an inner ring as a separate body combined with each other and a plurality of inner ring tracks on the outer peripheral surface thereof;

the shaft member is formed with one of the inner ring tracks in a middle portion in the axial direction thereof and a small-diameter step portion having a smaller diameter than that of the inner ring track portion at an end portion in the axial direction thereof; and

said separate inner ring has the other of the inner ring tracks on the outer peripheral surface thereof and is fitted on said small-diameter step portion,

which hub unit comprising:

a sensor holder fixed to the stationary ring of the hub unit for a driving wheel;

a sensor supported by said sensor holder and facing an encoder fixed to said rotary ring to rotate together with said rotary ring;

a harness or connector extended out of said sensor for taking out a detection signal of the sensor; and

a sensor unit including said sensor and said harness or connector,

wherein:

said sensor is an active sensor; and

the harness or connector of said sensor is taken out through an axial groove formed on the knuckle.

5. (Original) A hub unit for a driving wheel, in which:

one track ring out of a stationary ring and a rotary ring is an outer ring having a plurality of outer ring tracks on the inner peripheral surface thereof;

the other track ring of the stationary ring and the rotary ring is an inner ring assembly comprising a shaft member and an inner ring as a separate body combined with each other and a plurality of inner ring tracks on the outer peripheral surface thereof;

the shaft member is formed with one of the inner ring tracks in a middle portion in the axial direction thereof and a small-diameter step portion having a smaller diameter than that of the inner ring track portion at an end portion in the axial direction thereof; and

said separate inner ring has the other of the inner ring tracks on the outer peripheral surface thereof and is fitted on said small-diameter step portion,

which hub unit comprising:

a sensor holder fixed to the stationary ring of the hub unit for a driving wheel;

a sensor supported by said sensor holder and facing an encoder fixed to said rotary ring to rotate together with said rotary ring;

a harness or connector extended out of said sensor for taking out a detection signal of the sensor; and

a sensor unit containing said sensor and said harness or connector,

wherein:

said sensor is an active sensor.

6. (Withdrawn) A hub unit for a driving wheel according to claim 5, wherein said sensor is formed with said sensor holder to be fixed thereto by resin molding as a unitary structure.

7. (Withdrawn) A hub unit for a driving wheel according to claim 5, wherein said sensor is press-fitted and fixed to said sensor holder as a unitary structure.

8. (Withdrawn) A hub unit for a driving wheel according to claim 5, wherein an outlet hole for discharging water is provided in a lower portion of said sensor holder.

9. (Withdrawn) A hub unit for a driving wheel according to claim 5, wherein an IC terminal is bent in said sensor.

10. (Withdrawn) A hub unit for a driving wheel according to claim 5, wherein said sensor and said sensor holder can be brought into ratchet fitting to be fixed to each other.

11. (New) A hub unit for a driving wheel according to claim 1, wherein the sensor is fixed to the sensor holder by a screw.

12. (New) A hub unit for a driving wheel according to claim 1, wherein the sensor holder includes an annular metal portion and a resin portion formed integrally therewith, and the sensor that is annular, is fixed to the sensor holder with a plurality of screws spaced apart circumferentially from each other.

13. (New) A hub unit for a driving wheel according to claim 11, wherein the sensor holder includes an annular metal portion and a resin portion formed integrally therewith, and the sensor that is annular, is fixed to the sensor holder with a plurality of screws spaced apart circumferentially from each other.